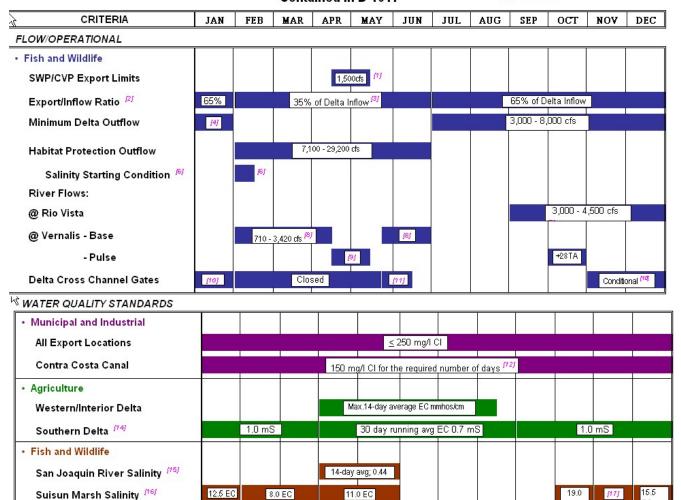
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<u>California Department of Water Resources - Division of Operations and Maintenance Operations Control Office</u> The standards listed below have been implemented under the State Water Resources Control Board Decision-1641.

# Bay-Delta Standards

Contained in D-1641



#### **Footnotes**

### [1][2][3][4] [5][6][7][8] [9][10][11] [12][13][14] [15][16 and 17][Table A]

1)

Maximum 3-day running average of combined export rate (cfs) which includes Tracy Pumping Plant and Clifton Court Forebay Inflow less Byron-Bethany

Year Type	All
Apr15 -	The greater of 1,500 or 100%
May15*	of 3-day avg. Vernalis flow

<sup>\*</sup> This time period may need to be adjusted to coincide with fish migration. Maximum export rate may be varied by CalFed Op's group.

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2)

The maximum percentage of average Delta inflow (use 3-day average for balanced conditions with storage withdrawal, otherwise use 14-day average) diverted

at Cliffon Court Forebay (excluding Byron-Bethany pumping) and Tracy Pumping Plant using a 3-day average. (These percentages may be adjusted

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3)

The maximum percent Delta inflow diverted for Feb may vary depending on the January 8RI.

Jan 8RI	Feb exp. limit
≤1.0 MAF	45%
between 1.0 & 1.5 MAF	35%-45%
> 1.5 MAF	35%

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4)

Minimum monthly average Delta outflow (cfs). If monthly standard ≤ 5,000 cfs, then the 7-day average must be within 1,000 cfs of standard; if monthly standard > 5,000 cfs, then the 7-day average must be ≥ 80% of standard.

Year Type	All	W	AN	BN	D	С
Jan	4,500*					
Jul		8,000	8,000	6,500	5,000	4,000
Aug		4,000	4,000	4,000	3,500	3,000
Sep	3,000					
Oct		4,000	4,000	4,000	4,000	3,000
Nov-Dec		4,500	4,500	4,500	4,500	3,500

<sup>\*</sup> Increase to 6,000 if the Dec 8RI is greater than 800 TAF

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5)

Minimum 3-day running average of daily Delta outflow of 7,100 cfs OR: either the daily average or 14-day running average EC at Collinsville is less than 2.64 mmhos/cm (This standard for March may be relaxed if the Feb 8RI is less than 500 TAF. The standard does not apply in May and June if the May estimate of the SRI IS < 8.1 MAF at the 90% exceedence level in which case a minimum 14-day running average flow of 4,000 cfs is required.) For additional Delta outflow objectives, see **TABLE A**.

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6)

February starting salinity: If Jan 8RI > 900 TAF, then the daily or 14-day running average EC @ Collinsville must be ≤ 2.64 mmhos/cm for at least one day between Feb 1-14. If Jan 8RI is between 650 TAF and 900 TAF, then the CalFed Op's group will determine if this requirement must be met.

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7)

Rio Vista minimum monthly average flow rate in cfs (the 7-day running average shall not be less than 1,000 below the monthly objective).

Year Type	All	W	AN	BN	D	C
Sep	3,000					
Oct		4,000	4,000	4,000	4,000	3,000
Nov-Dec		4,500	4,500	4,500	4,500	3,500

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8

BASE Vernalis minimum monthly average flow rate in cfs (the 7-day running average shall not be less than 20% below the objective). Take the higher objective if X2 is required to be west of Chipps Island.

Year Type	All	W	AN	BN	D	C
Feb-Apr14 and May16-Jun		2,130 or 3,420	2,130 or 3,420	1,420 or 2,280	1,420 or 2,280	710 or 1,140

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9)

PULSE Vernalis minimum monthly average flow rate in cfs. Take the higher objective if X2 is required to be west of Chipps Island.

Year Type		W	AN	BN	D	С
Apr15 - May15		7,330 or 8,620	5,730 or 7,020	4,620 or 5,480	4,020 or 4,880	3,110 or 3,540
Oct	1,000*					

<sup>\*</sup> Up to an additional 28 TAF pulse/attraction flow to bring flows up to a monthly average of 2,000 cfs except for a critical year following a critical year. Time period based on real-time monitoring and determined by CalFed Op's group.

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10)

For the Nov-Jan period, Delta Cross Channel gates may be closed for up to a total of 45 days.

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11)

For the May 21-June 15 period, close Delta Cross Channel gates for a total of 14 days per CALFED Op's group. During the period the Delta cross channel gates may close 4 consecutive days each week, excluding weekends.

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12)

Minimum # of days that the mean daily chlorides ≤ 150 mg/l must be provided in intervals of not less than 2 weeks duration. Standard applies at Contra Costa Canal Intake or Antioch Water Works Intake.

Year Type	W	AN	BN	D	С
# Days	240	190	175	165	155

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13)

The maximum14-day running average of mean daily EC (mmhos/cm) depends on water year type.

		WESTER	N DELTA		INTERIOR DELTA				
	Sac River @ Emmaton SJR @ Jersey Point			rsey Point	Mokelumne R@Terminous SJR@San Andreas				
Year Type			0.45 EC from April 1 to date shown						
W	Aug 15		Aug 15		Aug 15		Aug 15		
AN	Jul 1	0.63	Aug 15		Aug 15		Aug 15		
BN	Jun 20	1.14	Jun 20	0.74	Aug 15		Aug 15		
D	Jun 15	1.67	Jun 15	1.35	Aug 15		Jun 25	0.58	
С		2.78		2.20		0.54		0.87	

<sup>\*</sup> When no date is shown, EC limit continues from April 1.

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14)

As per D-1641, for San Joaquin River at Vernalis: however, the April through August maximum 30- day running average EC for San Joaquin River at Brandt Bridge, Old River near Middle River, and Old River at Tracy Road Bridge shall be 1.0 EC until April 1, 2005 when the value will be 0.7 EC.

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15)

Compliance will be determined between Jersey Point & Prisoners Point. Does not apply in critical years or in May when the May 90% forecast of SRI  $\leq$  8.1 MAF.

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16 and 17)

During deficiency period, the maximum monthly average mhtEC at Western Suisun Marsh stations as per SMPA is:

In November, maximum monthly average mhtEC = 16.5 for Western Marsh stations and maximum monthly average mhtEC = 15.5 for Eastern Marsh stations in all periods types.

Month	mhtEC
Oct	19.0
Nov	16.5
Dec-Mar	15.6
Apr	14.0
May	125

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Table A)

#### TABLE A

Number of Days When Max. Daily Average Electrical Conductivity of 2.64 mmhos/cm Must Be Maintained. [This can also be met with a maximum 14-day running average EC of 2.64 mmhos/cm, or 3-day running average DEL outflows of 11,400 ofs and 23,200 ofs, respectively.] Port Chicago Standard is triggered only when the 14-day average EC for the last day of the previous month is 2.64 mmhos/cm or less. PMII is previous month's 8RI. If salinity/flow objectives are met for a greater number of days than required for any month, the excess days shall be applied towards the following month's requirement. The number of day's for values of the PMI between those specified below shall be determined by linear interpolation.

- 1	Chipps Island							
PMI	0	(Chipps Island Station D10)						
(TAF)	FEB	MAR	APR	MAY	JUN			
≤ 500	0	0	0	0	0			
750	0	0	0	0	0			
1000	28*	12	2	0	0			
1250	28	31	6	0	0			
1500	28	31	13	0	0			
1750	28	31	20	0	0			
2000	28	31	25	1	0			
2250	28	31	27	3	0			
2500	28	31	29	11	1			
2750	28	31	29	20	2			
3000	28	31	30	27	4			
3250	28	31	30	29	8			
3500	28	31	30	30	13			
3750	28	31	30	31	18			
4000	28	31	30	31	23			
4250	28	31	30	31	25			
4500	28	31	30	31	27			
4750	28	31	30	31	28			
5000	28	31	30	31	29			
5250	28	31	30	31	29			
≥ 5500	28	31	30	31	30			

"When 800 TAF < PMI < 1000 TAF, the number of days is determined by linear interpolation between 0 and 28 days.

	Port Chicago						
PMI	(conti	nuous re	corder a	t Port C	hicago)		
(TAF)	FEB	MAR	APR	MAY	JUN		
0	0	0	0	0	0		
250	1	0	0	0	0		
500	4	1	0	0	0		
750	8	2	0	0	0		
1000	12	4	0	0	0		
1250	15	6	1	0	0		
1500	18	9	1	0	0		
1750	20	12	2	0	0		
2000	21	15	4	0	0		
2250	22	17	5	1	0		
2500	23	19	8	1	0		
2750	24	21	10	2	0		
3000	25	23	12	4	0		
3250	25	24	14	6	0		
3500	25	25	16	9	0		
3750	26	26	18	12	0		
4000	26	27	20	15	0		
4250	26	27	21	18	1		
4500	26	28	23	21	2		
4750	27	28	24	23	3		
5000	27	28	25	25	4		
5250	27	29	25	26	6		
5500	27	29	26	28	9		
5750	27	29	27	28	13		
6000	27	29	27	29	16		
6250	27	30	27	29	19		
6500	27	30	28	30	22		
6750	27	30	28	30	24		
7000	27	30	28	30	26		
7250	27	30	28	30	27		
7500	27	30	29	30	28		
7750	27	30	29	31	28		
8000	27	30	29	31	29 29		
8250	28	30	29	31			
8500 8750	28 28	30	29 29	31	29 30		
9000	28	30	29	31 31	30		
9250	28	30	29	31	30		
9250	28	31	29	31	30		
9750		31		31			
10000	28 28	31	29 30	31	30 30		
> 10000	28	31	30	31	30		
/ 10000 I	20	1 31	1 30	1 31	1 30		

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